

Tank ID	Radius	Fluid Height on May 2011	Pi	Tank Height	Estimated Gallons of Liquid on May 2011	Comments - Tank conditions / changing volumes after additional work	Gallons and/or Tons (bottoms in place)
East Tanks w/Activity under way on 9/2/2011							
27	53.89	3.08	3.141592654	40	210,193	SEE FOOTNOTE ON ESTIMATES ; Fluid height is 1.5" at sidewalls; hard 10" heel at center (~419 bbls or 17,600 gallons) on 9/14/11.	-
	53.89	7.41	3.141592654	40	505,692	Fluid height is 22'2-3/4" (36,112 bbls or 1,517,121 gallons vol) on 9/15/11	~88 tons sludge on 9/15/11 1,517,121 gallons liquids & sludge on 9/15/11
	N/A	N/A	3.141592654	40	initial estimate not available	Removed 400,000 gal to Tank 26; Method to estimate volumes will be revised.	~ 200 tons sludge on 9/2/11
Larger Tanks NW of FM 2725 /Bishop Rd intersection							
2	25	7.25	3.141592654	24	106,480	Removed 1850 bbls of water to Tank 7. On 8/15/11 moved appx 350 bbls of water / emulsion to Tank 26	Tank has been demolished; steel has been recycled.
7	23.66	7.5	3.141592654	32	98,660	Currently stands at appx 21'-4" (6682 bbls or 280,653 gallons) on 8/15/11	280,653 gal liquid; sludge uncertain - tank has floating roof.
Tanks centrally located on the Refinery site							
30	85	3.5	3.141592654	N/A	594,234	Currently ~ 10 inches (3400 bbls or 142,800 gal water w/residual TPH on top of water. Water should be clean.	142,800 gallons water & residual TPH on bottom
24	16.66	1	3.141592654	32	6,522	contains 2 to 3" (39 bbls)of water	1,637 gallons water
20	16.66	32.16	3.141592654	32	209,758	Currently 12 to 14" (7,609 gallons) of caustic sludge	40 tons caustic sludge
22	16.66	N/A	3.141592654	32		< 6' (39,000 gal or 931 bbls) water / rust-fltg roof on bottom; removed 210 bbl as wash water for Tank 27.	~30,000 gallons water
23	16.66	0.29	3.141592654	32	1,891	holes in tank	0.5 to 1' rust w/collapsed roof
19	16.66	N/A	3.141592654	32		holes in tank quantities uncertain as man way difficult to remove...	11 to 15 tons of solids
18	16.66	0.375	3.141592654	32	2,446	tank is rusty and contains holes	tank is empty
21	16.66	4.5	3.141592654	32	29,350		3" to 4" of rust & sediment
17	16.66	1	3.141592654	32	6,522	1.5" (19 bbl or 815 gal) of sludge	4 tons sludge
Small Tank South of Tanks 17 - 24 activity on 9/2/2011							
Y1	9.5	6	3.141592654	10.25	12,725	12,725 gallons / uncertain quantity of bottoms.	assume 12" of solids (10 tons)
Small Tanks NW of Tanks 17-24							
n2	6	5	3.141592654	15.41	4,230	could not gauge, fluid level based on audio	assume 12"of solids (5 tons)
n1	6	15	3.141592654	15.41	12,690	could not gauge, fluid level based on audio	assume 12"of solids (5 tons)
Small Tanks NW of FM 2725 /Bishop Rd intersection							
X1	9	2	3.141592654	21	3,807	BS&W - Tank tops will be removed to 3' from ground surface on 9/16/2011	Assume 24" of solids (18 tons)
X2	9	2	3.141592654	21	3,807	BS&W - Tank tops will be removed to 3' from ground surface on 9/16/2011	Assume 24" of solids (18 tons)
X3	7	2	3.141592654	16	2,303	BS&W is 2" to 3" sludge (240 gal or 5.7 bbl); top was removed; 3" wall to floor remain.	1 ton on floor; 9/15/11
			Total Gallons		1,801,393.52	Tanks X1, X2, and X3 not in total because the liquid is BS&W	
Superior Oil Tanks							
14	50	Empty		40		Tank has a new bottom and being repaired by Superior	
13	61	??		48		Has been repaired by Superior	
12	61	Empty		48		Currently empty with manway off tank.	
Notes							
red - tank has been demolished.							
blue - tank is empty / ready to be demolished.							
green - tank contents are profiled or being removed.							
violet - tanks are scheduled for shearing / removal of contents on Sept 16 & 19, 2011.							
orange - tanks are scheduled for shearing / removal of contents on week of Sept 22, 2011							

[illegible]